



SEQUENCE LISTING

#6
RECEIVED
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TECH CENTER 1600/2900

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<120> COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION,
ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER

<130> MRI-008A

<140> 09/732,560

<141> 2000-12-08

<150> 60/169,811

<151> 1999-12-08

<150> 60/171,330

<151> 1999-12-21

<150> 60/189,113

<151> 2000-03-14

<150> 60/193,943

<151> 2000-03-31

<150> 60/203,772

<151> 2000-05-12

<150> 60/210,820

<151> 2000-06-09

<150> 60/220,113

<151> 2000-07-21

<160> 125

<170> PatentIn Ver. 2.0

<210> 1

<211> 457

<212> DNA

<213> Homo sapiens

<400> 1

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tatcctagaa tctgtcacca gtgagtctaa ttttcacaat tacaccttgg tctcattgaa 180
tgaagaattt aatcgtggac gaggactaaa tgtgggtgcc cgagcttggg acaagggaga 240
gggtcttgatg tttttctgtg atgttgatat ctattttctca gccgaattcc ttaacagctg 300
ccggttaaat gctgagccag gtaagaaggt gttttaccct gtggtgttca gtctttacaa 360
tcctgccatt gtttatgcca accaggaagt gcgaccacct gtggagcagc agctggttca 420
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<210> 2

<211> 185

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<222> 18,99,142
<223> n = a,c,g, or t

<400> 2
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gtgctaaaat gggaaggagg cggagttttg ctgatctgnt aaattotttag tgaagtttcc 120
tcgattttcca gtggctgctg tngtttgagt ttggtttgga gcaaaactga ggtagtccta 180
acatt 185

<210> 3
<211> 43
<212> DNA
<213> Homo sapiens

<400> 3
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<210> 4
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 101,261,312
<223> n = a,c,g, or t

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ctatattaac tcataataaa aagtaactag tcaaaattta naacattctg atcaaaatgg 120
gtctgcacat gcctttcaaa cacctgctgg tcatagtcag gaggggaactg ctcgctacac 180
atcgggcaca ccttccagtg actttcaaca tgttcttcaa atttgctctg atcatagtta 240
ggaggaaaca ttaactcaca naggggacac ttcttggtgaa catcaaagct ggaatcaaag 300
caaaagcctg tnccatgccc ac 322

<210> 5
<211> 327
<212> DNA
<213> Homo sapiens

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taagcttata tgtatttgaa ctttttttgaa atcctattca agtatattta tcatgctatt 180
gtgatatttt agcactttgg tagctttttac actgaatttc taagaaaatt gtaaaatagt 240
cttctttttat actgtaaaaa aagatatacc aaaaagtcctt ataataggaa ttttaacttta 300
aaaaccact tattgatacc ttacat 327

<210> 6
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 65,152,189,196,198,200,230,235,253,258,268
<223> n = a,c,g, or t

<400> 6
cccttagcgt ggtcgcggcc gaggtacttt cctagatgac atatcgagtc aacatgaagc 60

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aggaaatgat ttgcttttcc ttaaatagtt cnaaggcttg aaaataaact ttctttttgc 180
atttcttttna gaatgntngn tcattaacaa cttttaacct tatcttcctn ttctncttag 240
cccttaacag acngagtnca ttctatgntg gaaataacaa gaacttga 288
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<210> 7
<211> 123
<212> DNA
<213> Homo sapiens

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ttcatgttgg tttattttca cagattgggg taacgtgcac tgtaagacgt atgtaacatg 120
atg 123
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<210> 8
<211> 272
<212> DNA
<213> Homo sapiens

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<400> 8
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ccaatcttga aatttgacca caagtgtctt atatatgcag atctaagtga aaatccagaa 120
cttggaactcc atcgttaaaa ttatttatgt gtaacattca aatgtgtgca ttaaataatgc 180
ttccacagta aaatctgaaa aactgatttg tgattgaaag ctgcctttct atttacttga 240
gtcttgtacc tcggccgcga ccacgctaag gg 272
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<210> 9
<211> 367
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 31
<223> n = a,c,g, or t

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ttgaatacaa gtgactaagc caacaacaga ataaataactt ttatagtagt tttataatcc 120
tgaaattcga aagctttccc aattgcaactt gcatctaaac aaaactgttg cagttttttac 180
tctatatttatt ttgttcccca tgtttatgaa agtcctgcac agtttcaaag gcatggtaaa 240
taatatatca atgtttatgt agtctgttac agaaacagct atagataaca ttatccagtg 300
aagagcaaaa tccaagcttt agaaaaatat tcatgcatgc aattttgaca tatcttaaaa 360
aataggt 367
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<210> 10
<211> 245
<212> DNA
<213> Homo sapiens

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<400> 10
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gctgaatgaa gagtcttata aagacagcac tctgatcatg cagttactta gggacaatct 120
cactctgtgg acatcggaaa accaggggaga cgaaggagac gctggggagg gagagaacta 180
atgtttctcg tgctttgtga tctgttcagt gtcactctgt acctcggccg cgaccacgct 240
aaggg 245
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<210> 11
<211> 302
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 300

<223> n = a,c,g, or t

<400> 11

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gattcttggt aaaattttat ccaaaaaaca ggatacatat atatttagag aaggaaatat 120
gaaatcaaga gttttggcag cccctgcttt tttttttttt ttagctccct aaagactgta 180
gcaggataaa aggatcactg gctccgagtc tctttgagat aacaagtgat gaaataaaaa 240
agaaagccca taccctcaaa taaggtcagg taaccccatc gccaccctc cctacaagg 300
aa 302
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<210> 12

<211> 97

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 23,92

<223> n = a,c,g, or t

<400> 12

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cccttagcgt ggtcgcgccc gangtacagt gggagagtga ggtgggagaa gaagagtgtc 60
tggtagggtg gctcactgtc ttcttggtcg anaatgt 97
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<210> 13

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 54,86,108,114,121,150,173,183,185,196,199,207,209,215,218,232

<223> n = a,c,g, or t

<400> 13

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ccctttcgag cggccgcccc ggcaggtact tttttttttt tttttttttt tttntttttt 60
tttttttttt ttttaaaaaa ctcggnnttt atacaataaa atgtttnta gcanatgcct 120
nttgttttta tatattaaaa ttttgcaaan ccctttgagc tactgcctta gntaccac 180
tgnctttttg ttatgnggna gaggatntna tgacncnta cacacaaacc cnt 233
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<210> 14

<211> 498

<212> DNA

<213> Homo sapiens

<400> 14

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cccttagcgt ggtcgcgccc gaggtacatg ggcaatgctg gacgtaaaga aagaagtgat 60
gcactcaatt ctgcaataga taaaatgacc aagaagacca gggacttgcg tagacagctc 120
cgcaaagctg tcatggacca cgtttcagat tctttcctgg aaaccaatgt tccacttttg 180
gtattgattg aagctgcaaa gaatggaaat gagaaagaag ttaaggagta tgcccaagtt 240
ttcctgaac atgccacaa attgattgag gttgccaaact tggcctgttc catctcaa 300
aatgaagaag gtgtaaagct tgttcgaatg tctgcaagcc agttagaagc cctctgtcct 360
caggttatta atgctgcact ggcttttagca gcaaaaccac agagtaaact ggccaagag 420
aacatggatc tttttaaaga caatgggaaa aacaagtccg tgttctcaca gatgctgtcg 480
atgacattac ttccattg 498
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<210> 15
<211> 273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 85,177,243,246
<223> n = a,c,g, or t

<400> 15
cccttagcgt ggtcgcgggcc gaggtaccaa gattaacaaa agcagtggca ttgtggaggc 60
atcacggatc atgaatttat accantttat tcaactttat aaagatatca caagtcaagc 120
agcaggagta ttggcacaga gctccacctc tgaagaacct gatgaaaact catcctntgt 180
aacatcttgt caggctatgt ctttggtatg gaagggtgaa gcagctgacc gatgaggagg 240
agngtngtat ctgtatggat gggcgggctg acc 273

<210> 16
<211> 45
<212> DNA
<213> Homo sapiens

<400> 16
cccttagcgt ggtcgcgggcc gaggtacttt tttttttttt ttttt 45

<210> 17
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 198,336,355
<223> n = a,c,g, or t

<400> 17
cccttagcgt ggtcgcgggcc gaggtaccaa ggtgtgctga agtggaagca aagttctcca 60
aagtcagca tggtagacat cagtgggtgt aaccaaggac agacccaag gcaagggtgaa 120
cctcaaaaat ggaacctcaa gtctatgcag tccagctgcc ctccccacca gaaagtcctt 180
gttcagccc aacatcantg cctctgagtt tgtttactag aaacaaagga agaatttcct 240
tgtaaaaata tagacagagt agtccctggc tttctcctct tgcaggaagg atggattctc 300
ccattccata ccattcttgc cccacactgg ccccgangaa tacttaattc aactntgtga 360
aaataaagat tgtttttggg tttgaggggc aaaaaaaaaa aaaaaaaaaa 408

<210> 18
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 69,105
<223> n = a,c,g, or t

<400> 18
ccctttcgag cggccgcccg ggcaggtacg cggggagtgt ccagctgcgg agaccctgta 60
taatgggna actaattcaa caaacgggac ccttctgtgt gccanaaacc gcaagcagtt 120
gctaaccag tgggacaggc ggattggaag agcggaagg tcctggccca gagcagtgtg 180
acattccct ctgtgaccat gaaactctgg gtgtctgcat tgctgatggc ctggtttggt 240
gtcc 244

<210> 19
<211> 67
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30
<223> n = a,c,g, or t

<400> 19
actttatttt tttttttttt tttttttttt cttttttttt tttttttttt tttttttttt 60
ttttttt 67

<210> 20
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 39,212,313
<223> n = a,c,g, or t

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catatggatt atataaactg aagagcaggg gaaatactaa aatgtccatt catctgatcc 120
acatgcgtgt ggcagcccaa ggctttgttg taggagcaat gactgttggt atgggctact 180
ccatgtatcg ggaattcttg gcaaaacctt anccttagaa gaagagatgc tgtcttggtc 240
ttgttgagg agcttgcttt agtttagatgt cttattatta aagttacctt ttattggttg 300
aaaataaact aantttgtat gggtttagat ggcaaaaaaa aaaaaaaaaa aaaaa 355

<210> 21
<211> 534
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 470,471
<223> n = a,c,g, or t

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agcctatctg caccatgtct cacacgttca gttgcagctc ttccgttttg aaggcgacag 120
tgggcaagaa gccctgggca gcacaagaaa gtcaatcacg ttgagacaga gagagcagga 180
gaggaagtgg gccccagtag aagtgggcga gagagcgttg ggtgggaacg tggcacgaga 240
gagagaaatt atgagattga cagagagaga gagagagaga gagaaagaga aagagagaga 300
gaaagagaaa gagacagaga aaagaaacta tggtgtttta aatgccagtg gaaagtccat 360
gggggtgaaa gagtccggca atggccaggg agtttagcag cttggcgtaa tgtcttccca 420
ctgttttgtc tgtcttgaga atagcattca acgcgactgt gttcccgcan ncagacgtta 480
ggcccgctgc ccacgccttt gagtccccgc gtacctgccc gggccggccg ttcg 534

<210> 22
<211> 51
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1,18,50

<223> n = a,c,g, or t

<400> 22

ngtgatggat atctgcanaa ttcgccctta gcgtggtcgc ggccgaggtn c 51

<210> 23

<211> 334

<212> DNA

<213> Homo sapiens

<400> 23

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ccctttcgag cggccgcccc ggcaggtacg cgggaatctt cgacagctgg gctggaacgt 60
gaactcagta gctgaacctg tctgacccgg tcacgttctt ggatcctcag aactctttgc 120
tcttgtcggg gtgggggtgg gaactcacgt ggggagcggg ggctgagaaa atgtaaggat 180
tctggaatac atattccatg ggactttcct tccctctcct gcttcctctt ttctgctcc 240
ctaacctttc gccgaatggg gcagcaccac tgacgtttct gggcggcagt gcggctgcc 300
ggttcctgta cctcgccgcg gaccacgcta aggg 334
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<210> 24

<211> 51

<212> DNA

<213> Homo sapiens

<400> 24

cccttcgagc ggccgcccgg gcaggtactt tttttttttt tttttttttt t 51

<210> 25

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222>

99,105,134,141,143,173,183,185,188,194,199,210,223,231,237,240,247,260,264,274,278,283,287,297,315,322,324

<223> n = a,c,g, or t

<400> 25

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tttttttttt tttttttttt tttttttttt ttttattanc aacanacaaa aaaagtttat 120
tgaatacaaaa actnaaaggc ntnaacagtc ctggggcccaa aaaatccatg gcnggaagtc 180
aanantnttg cttnagggnc ggccctgggcn gccctggaaa aantcattgc ncatganagn 240
gatgagngcc aggaaaacan catnctcctg gaanteccnc tgntggncac tgttttnatc 300
caggctgccc attanccttt tnanccc 327
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<210> 26

<211> 198

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 116,130,140,146,162,164,165,179

<223> n = a,c,g, or t

<400> 26

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttntttt 120
tttttttaan aaaaaaaaaa aaaaaaanaa aaaaaaaaaa anannaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa 198
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<210> 27
<211> 291
<212> DNA
<213> Homo sapiens

<400> 27
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ttgaataatt ataagtatca gtaaaggaag tgaaagacag gattgcattt aatagataaa 120
acgttttaggc aataattgaa caaaagaatc ctggcatatt tctaactact atggcaattt 180
acttatggta tttattttca gtagtaaaga cccagcttga atgtaaattt tgtatagtgt 240
aagtatgaag aacatagtgc aactgtacct cggccgcgac cacgctaagg g 291

<210> 28
<211> 193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10,13,23,26,78,98,106,117,131,143,158,163,168,179,183
<223> n = a,c,g, or t

<400> 28
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gctgtaactc catatgtngt atttttattc ttactaanaa gaagtnaatt tttccancaa 120
tcacatcctt naaatgatac ttngatttat tatattcnaa tcntatangt agacaatcnt 180
cantgcccac ttc 193

<210> 29
<211> 328
<212> DNA
<213> Homo sapiens

<400> 29
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gggaggggct gaacgtgggtg aagacaggcc gagtgcattc tggggagacc aatccagcag 120
attcaaagcc aggcaccatt cgtggggact tctgcattca ggttggcagg aacatcattc 180
atggcagtga ttcagtaaaa agtgctgaaa aagaaatcag cctatggttt aagcctgaag 240
aactgggttg ctacaagtct tgtgctcatg actgggtcta tgaataagag gtggacacaa 300
cagcagtctc cttcagcacg gcgtgggtg 328

<210> 30
<211> 231
<212> DNA
<213> Homo sapiens

<400> 30
cccttgagcg gccgccccgg caggtacgcg ggatttagaa atggtttgcc ttaatggaga 60
caatagcaga tctgtagta tttccagtag acatggcctt ttaatctaag ggcttaagac 120
tgattagtct tagcatttac tgtagttgga ggatggagat gctatgatgg aagcataccc 180
agggtggcct ttagcacagt atcagtacct cggccgcgac cacgctaagg g 231

<210> 31
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 201

<223> n = a,c,g, or t

<400> 31

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cccttagcgt ggtcgcgcc gaggtacaca agagttgtct taacaagctg cacaaactca 60
ggccgaacta cgcagcacac tgctccagaa aagttaaact gaaggaaaaa aagggtccac 120
atgaagtagg tctcctaata ccacagggtta actctgttgt ttctcatgga aaattaaatt 180
cactggccgc ccaggacgtc ngtggaatcc tgatctcctg g 221
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<210> 32

<211> 305

<212> DNA

<213> Homo sapiens

<400> 32

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ccctttcgag cggcgcccg ggcaggtact tttttttttt tttttttttt tgctgggaaa 60
tttaaatttt ttttttcaaa acccctaata cactggagta tgcttcacct agaaacagat 120
tacaggacga atagctataa tgaataagca atacaatttg tatttgggat gcaatttgtgt 180
tgtaaagtgtt caaataatca atttataaat ttgttgcttt tactttttaca aaaatattca 240
tttaacccat aacatgagtt gcaaaattat ctccagactt ctacaggtga ttataaactg 300
taatt 305
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<210> 33

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 67,71,83,115,193,196,252

<223> n = a,c,g, or t

<400> 33

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ccctttcgag cggcgcccg ggcaggtact tttttttttt tttttttttt tttttttttc 60
tattttngtt naattttattt aanaccacct ccttacaact tccagagaga aaatncaaaa 120
caagaaacag acttggtttc aaatgcataa ccaggtgctg gagtttaaag cattactgat 180
aacattgtta canaanaatg gcagcttact ccagggcact tcagtattcc tgaggaataa 240
acatgatttc tnttgctctc ccgctgggat gttctcaggt gaagtcactg ctctgc 297
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<210> 34

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 173

<223> n = a,c,g, or t

<400> 34

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ccctttcgag cggcgcccg ggcaggtact tttttttttt tttttttttt tttggaatta 60
aattttattt cacattgata gaaaccatga aaaacattta cactttccca tgttacagca 120
caatattttca atggaatatt tcttgccata aataatatct tgctgatttg tanaagttaa 180
ataacagttt atgttcttca aggtaaagaa aaatgacata gtaaagtatt gtttaaaatt 240
tttaaattcca gacataaaca tatggcttca ttattaacat cctgtatagt ccattactaa 300
attattttcca ttatcaatta gcacccattt ataa 334
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<210> 35

<211> 330

<212> DNA

<213> Homo sapiens

<400> 35

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cccttttcgag cggccgccccg ggcaggtaca cgtgctagga aaaaacagct tcagtgtctt 60
tgtttaaatgt gttgaaactc atcttttttaa atcttgaaaa gccaatgtt tacttgaaac 120
ttgaaaatag catatttttc tgtttttttg ttgtttgttc atttgtatta gcacaattta 180
atgtaattcc tggtttggag gcagcaagac ctatgagcaa gaactattta cttgaccctc 240
gtttttttct cttgttcttg tgtggtctga aatctaaaac tagactttat tatgatagat 300
ttcctataag ccaatttcta ataacaaata 330
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<210> 36

<211> 239

<212> DNA

<213> Homo sapiens

<400> 36

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cccttttcgag cggccgccccg ggcaggtacg cggggatcct gttcttggtc ctgatgggaa 60
gacgcatggc aataagtgtg caatgtgtgc tgagctgttt ttaaaagaag ctgaaaatgc 120
caagcgagag ggtgaaacta gaattcgacg aaatgctgaa aaggattttt gcaaggaata 180
tgaaaaacaa gtgagaaatg gaaggctttt ttgtacctcg gccgcgacca cgctaaggg 239
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<210> 37

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 119

<223> n = a,c,g, or t

<400> 37

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cccttttcgag cggccgccccg ggcaggtact tttttttttt tttttttttt tttttccttt 60
ctgaatatatt aattagggca aaacaagata tttgcatggg atgcttctta agtcatctna 120
agtagttccc cttcagttct taacatgcac tctcaaaatc aacacaccta ccccaaccca 180
atactcatcg cttcacagtc atccagtaaa gtacctcggc cgcgaccacc ctaaggg 237
```

<210> 38

<211> 313

<212> DNA

<213> Homo sapiens

<400> 38

```
cccttagcgt ggtcgcggcc gaggtacagc aatatgctgc gcttaagagt ttaagtcaat 60
cctacttgtg ttggcatcag gtcccttagg agatgtaaaa acccctcctt tcccatattg 120
acacgtcaca aacgattcac acacagggct gggctggaca gctggccaca gagcccagca 180
agtccttcct gggagagaag agttagggct gatactgaag gtctctttca catctgggca 240
cacgtctgcc ttcaggctgt aagaatttca tttgtcgatt gttaaataaa accaggagaa 300
agcaatgcag gtc 313
```

<210> 39

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6,20,22

<223> n = a,c,g, or t

<400> 39

```
cccttnccag cggccgccccn gncgggcact gattttaaaa actaataact taaaactgcc 60
acacgcaaaa aagaaaacca aagtgttcca caaaacattc tcctttcctt ctgaagggtt 120
```

```
tacgatgcat tgttatcatt aaccagtctt ttactactaa acttaaatgg ccaattgaaa 180
caaacagttc tgagaccgtt cttccaccac tgattaagag tgggggtggca ggtattaggg 240
ataatattca tttagccttc tgagccttct gggcagactt ggtgaccttg ccagctccag 300
cagccttctt gtccactgct ttgatg                                     326
```

<210> 40

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 79,105,148,199,212,215

<223> n = a,c,g, or t

<400> 40

```
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt tttttttttt 60
tttggttcct aaagcaagna actttattat cattccttta aaaanaacca aggaaaattc 120
acaacatatg tgaaacacaa acagctgngg tttaggaggt aaacaaagga ccaacatagc 180
cctgaaatgc aacagcctnt gagtgacttg anccncatgt gactgggggt ctgttaaaag 240
ggcaggctcc tccctcctag ccctgaagcc ccagga                                     276
```

<210> 41

<211> 93

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1,21,24

<223> n = a,c,g, or t

<400> 41

```
nttttttttt tttttttttt nttntttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt ttt                                     93
```

<210> 42

<211> 111

<212> DNA

<213> Homo sapiens

<400> 42

```
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttttattttt 60
tttatttttt tttttttttt tttttttttt tttttttttt tttttttttt t                                     111
```

<210> 43

<211> 81

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17,35,61

<223> n = a,c,g, or t

<400> 43

```
cccttagcgt ggtcgonggc cgaggtactt tttntttttt tttttttttt ttttggtttt 60
nttttttttt tttttttttt t                                     81
```

<210> 44

<211> 333

<212> DNA

<213> Homo sapiens

<400> 44

```
ccctttcgag cggccgcccc ggcaggtaca acattctgct caaccccaca ggctccattc 60
cctttaccac atatttataa tatgtttggg tcaactcatag gagtgaaaca ctgtcagcat 120
caatagttag cagcactttc aaaatacatt ttattgtccc gaatagaaac cttaactatt 180
caattagtcc agtaattcca aatgggtctta ttacttctat acataagata tgatcttaca 240
acatttatgt agctaaatac ttaacttccc atgctttttg aggattccca aaagacttta 300
gggggttccc aagactttca gggttttttt ttt                                     333
```

<210> 45

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 50

<223> n = a,c,g, or t

<400> 45

```
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 119
```

<210> 46

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 254,275,279

<223> n = a,c,g, or t

<400> 46

```
ccctttcgag cggccgcccc ggcaggtaca caatcttttg cctttatttc gtaaagtttt 60
atacagaaga gagaagagca tgtctttact tgaaaaactc ttgatcaaga atttggggtg 120
gagaaaagaa agtgggttat caaggggtgat ttgaaatttt ctgcagcatt aaagctggcg 180
cttaataaga ataagtaata ataaagaaat ttctaacatt caaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaanggtccc tcggccgcga ccacnctang gg                                     282
```

<210> 47

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 147,220,227,281

<223> n = a,c,g, or t

<400> 47

```
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttacattata 60
aaagcatttt attgaacaca ttctggaggt agttagaacc aaaacaaaat ttgggatttg 120
ggtggggatt ctgttttgat gatttanatt tgggaaaact ttgggttctc gtgtcagcag 180
gggccatgct gtgggaaacc tgaaggctga tttgaagcan aatatanaac tgcggcacgg 240
gagaccaggg gctgggaatg gggctctcct gggaaccaa naatgtggtt ctgcaattgg 300
cttggtct                                     308
```

<210> 48

<211> 207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 107,108,120,173
<223> n = a,c,g, or t

<400> 48
cccttagcgt ggtcgcggcc gaggtacttt tatttttttt tttttttttc ttggacaacc 60
agctatcacc aggtctcggtta ggtttgctgc ctctacctat aaatctnncc actattttgn 120
tacatagacg ggtgtgctct ttttactaga tcttaggttag ctctgtctggt ttnggggggc 180
ttagcttttg ctctccttgc aaagtta 207

<210> 49
<211> 150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15,54,87,102,104,105,109,110,130
<223> n = a,c,g, or t

<400> 49
gatggatatt tgcanaattc gcccttagcg tggtcgcgcc cgaggtacgt agtntagacc 60
atatgtgttg gaggttgaga ctagtanggc taggccacc gntnntttnn aagcggcaaa 120
gactagtatn gtaataggca caatattggc 150

<210> 50
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30,34,118,178,232
<223> n = a,c,g, or t

<400> 50
cccttagcgt ggtcgcggcc gaggtacttn gtanagattg acttcctaag ctacttaaga 60
caacttgac cactaagcaa aaaaatgtac gaaccatttg gaaaaatgaa atttagtngt 120
tccaagtttc aaagaaatgt caacatttta ttccattcaa taaagaacaa aaccaatngt 180
gtttttatta ctttcatctg aaacattcca tgttttaatc tgagccttgc anactttcat 240
ttggagtttg aaccggtttt gggtgcattt cattttttgga gaacttaatt aacgtgagat 300
tggcaattga aatgcag 317

<210> 51
<211> 328
<212> DNA
<213> Homo sapiens

<400> 51
cccttagcgt ggtcgcggcc gaggtacaca ttgtattata tacaaacaag caacaacaaa 60
aagtttcatc atgtaaacaa aagaatataa attatagaca taattggaag tttcaaacag 120
tccttaaadc attgtgagct tctctaaaag gcacaggtct tggagtgtgg gcacagagcc 180
attagtcaga tgtctgggtg gtctcccata atagcaatgt atactcttaa gtgggctttt 240
tgtgaactct gtcggggtga atgagttagg cctcttaaag gaatgaaatg ctttcacatt 300
tggggcaaca agtgaaaaat actgaaag 328

<210> 52
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56,69,103,151,164,175,190,208,250,289,292
<223> n = a,c,g, or t

<400> 52
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttttttnaaat 60
tccaaccana agctaaatac aattggaaac tggtaagcac tanttttact ccaaaggagt 120
aggatcattc aaattttactc caataaaaagt ntgcaaccct taancaaagc ttttnttcat 180
ttaaaaaggan aaaaaaaaaa aacctatnca gtagtctttc cttatgttca ttgcacaaaa 240
tgagtctctgn ttttaaaact ttgacactca atggttaatt ttacaattna anattccaac 300
tttataacct 310

<210> 53
<211> 319
<212> DNA
<213> Homo sapiens

<400> 53
cgcccttagc atgggtcgcgg ccgaggtaca gagatagatg aatggaaatg ggtaagggag 60
gtgttcattc acatccatct aactgcaaaa tacaaaagta agaagtcatt gacatgaagc 120
aacgacgacc aagacgttct cagatctaaa ggtgaatgat ctgagtcagc ctggaaatgc 180
acaaggtgga aaaataacat aaaaaagcca taagaccttg aagaacatca atgtcaaaga 240
taaattctaa ggtcccagag aaaaaagaat gggaatcaaa ttgacctcag actatacgtg 300
agaaacacgg agagccaga 319

<210> 54
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222>
16,22,27,28,50,66,76,78,85,88,91,97,99,102,106,107,117,125,156,161,163,176,198,221
<223> n = a,c,g, or t

<400> 54
cccttaccag cggccncccc gncaggnnct cagggccaaa gcgaggcatt cttactggct 60
tacctnctaa tggcannta ctctnctnga ntgtatnant anccanngta aggggtnaaa 120
ggatngtaag catagaaacc actagaaagt gggctnaatg nanttcttgt ggcctnagct 180
caatgcagtt agctgaanaa ttgaaaagtt tttgtttgga nacttttata aacagaaatg 240
gaaagcagag ttttcattaa atcctttttac cttttttttt cttggtaatc c 291

<210> 55
<211> 317
<212> DNA
<213> Homo sapiens

<400> 55
ccctttgagc ggccgcccgg gcaggtacaa aatgtataag attaatthtc tatgttagga 60
ccatttgttt tcaccaattc catagagctc caatgtgtaa aagaagacac tgatctaact 120
cttggtgtaa atatttagta actcatttat ctggaagaaa gcaaaacaaa acaaaaatac 180
aaggaataaa aatcactggg agtgcttttc attcactgaa taatgagttt tgcaaggagc 240
acgtggatgg tgacattata tctttttacat ctttattttc tgtttctttt ttgactcctt 300

atcagtgaat ttatctt

317

<210> 56

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 92,111,142,347,396,405,406,407,411,414,415,416,417,418,420

<223> n = a,c,g, or t

<400> 56

```
cccttagcgt ggtcgcggcc cgaggtactg ccaccagatt ttttattaca tcatttgaaa 60
attagcagta tgcttaatga aaatttggtc angataaat gagcagttaa natataaaca 120
atttatgcat gctgtgactt antctatgga tttattccaa aattgcttaa tcaccatgca 180
gtgtctgtat ttttatatat gtgttcatat atacataatg attataatac ataataagaa 240
tgagggtgta ttacattatt cctaataata gggataatgc tgtttattgt caaagaaaaa 300
agtaaaatcg ttctcttcaa ttaatggccc ttttattttg ggaccangct tttattttcc 360
ctgatattat ttctatttaa tactcttttc tctcanggaa aaaannnata naannnnntn 420
tgaaaagtcc tgcc 434
```

<210> 57

<211> 297

<212> DNA

<213> Homo sapiens

<400> 57

```
cccttagcgt ggtcgcggcc gaggtactgg aaacaaaaat aaagttttct acattatttt 60
cagccttggg ttatgggata gtttctttgt gtttgtcgta atatgcacat tgtccttcta 120
ggacctgtca cccaccatg gagaaaagag tcttttggtt ctttttaaca taagtgatta 180
gtttaagagt atgctgagga gccactgggc ttaaagaagg atgtaaataa gacccaaata 240
catagggacc aggcgctgct ttctcatgtt cacaaaagca gtctccacc actgaac 297
```

<210> 58

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 215,263,290,297

<223> n = a,c,g, or t

<400> 58

```
ccctttcgag cggccgcccg gcaggtacgc ggggatcttg ttgaagtcaa tcctcagttg 60
gccacctcag aggaagaggc gaagactaca gctaacctgg cagtagatgt gattgcttca 120
agctttggtc agacaagaga aggagggcat attgtctatg accaacttcc tactcccagt 180
tcaccagatg aatcagaaaa tcaagcacgt gtganaattt aggagacact gtgcactgac 240
atgtttcaca acaggcattc canaattatg aggcattgag gggatagatn aatactnaat 300
ggttgtctgg gtcaatactg cc 322
```

<210> 59

<211> 53

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1,15,33

<223> n = a,c,g, or t

<400> 59
 ngagcgggccg ccatntgtga tggatatctg canaatcgc ccttcgagcg gcc 53

<210> 60
 <211> 54
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38,39,40,41
 <223> n = a,c,g, or t

<400> 60
 cccttagcgt ggtcgcggcc gaggtacttt tttttttnnn nttttttttt tctt 54

<210> 61
 <211> 60
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50
 <223> n = a,c,g, or t

<400> 61
 cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tctttggggn tttttttttt 60

<210> 62
 <211> 54
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25
 <223> n = a,c,g, or t

<400> 62
 cccttagcgt ggtcgcggcc gaggnacttt tttttttttt tttttttttt tttt 54

<210> 63
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 63
 ccctttcgag cggccgcccc ggcaggtaca gatcctggaa ggacaaaaga tcctggctaa 60
 ctgttcttct ccctaccagg tagacctgtt tggatatagca gatttagcac atttactatt 120
 gttcaaggaa cacctacagg tcttctggga tgggtccttc tggaaactta gccaaaatat 180
 ttctgagcta aaagatggtg aattgtggaa taaattcttt gtgcggattc tgaatgccaa 240
 tgatgaggcc acagtgtctg ttcttgggga gcttgcagca gaaatgaatg ggggtttttg 300
 aactacatt ccaaaagtca ccttgaacaa aagccttat 339

<210> 64
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 308,337,355,357,362

<223> n = a,c,g, or t

<400> 64

```

ccctttcgag cggccgccccg ggcaggtacg aatttggtca ggctctcttc actggctggg 60
ctgctgcttc tctctgcctt ctgggaggtg ccctactttg ctgttctgt ccccgaaaaa 120
caacctctta cccaacacca aggccttata caaaacctgc accttccagc gggaaagact 180
acgtgtgaca cagaggcaaa aggagaaaat catgttgaaa caaacgaaa atggacattg 240
agatactatc attaacatta ggaccttaga attttgggta ttggaaatct tgaagtattg 300
gtatttcnaa aacaacaaaa caaaacaaaa aaacctntgt gttaaaaata cttcnangtg 360
cntaaacaat gggcttttaa ttttattttt ttaat 395

```

<210> 65

<211> 335

<212> DNA

<213> Homo sapiens

<400> 65

```

ccctttgagc ggccgccccg gcaggtacgc gggcccttgg accaccttca tgttagttgg 60
gtattataaa taagagatac aaccatgaat atattatgtt tatacaaaat caatctgaac 120
acaattcata aagattttct ttttatacct tcctcaactg cccctccac ctgcccatag 180
tcaccaaatt ctgtttttaa tcaatgacct aagatcaaca atgaagtatt ttataaatgt 240
atttatgctg ctagactgtg ggtcaaagt ttccattttc aaattattta gaattcttat 300
gagtttaaaa tttgtaaatt tctaaatcca atcat 335

```

<210> 66

<211> 330

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 302,304

<223> n = a,c,g, or t

<400> 66

```

ccctttcgag cggccgccccg ggcaggtact tttttttttt ttcttttttt ttcttaatta 60
cgcattttta atatcaatat gtgcatttgt ttttacagtt ataaattttt ttctcacctg 120
ttttagacaa cagcttgtaa tagttttgaa tccattaaga tgttgcttcc aatttgaaat 180
attttgtgta tacatgtata taaaaaataa cccaatgtat gactcatctg accgatgttt 240
aagatcaata acggcttatt tttcaacatg cagttaggaa gagagggaag caaaccaacc 300
tntntacagt atctttttgc tggcttgttt 330

```

<210> 67

<211> 58

<212> DNA

<213> Homo sapiens

<400> 67

```

ccctttcgag cggccgccccg ggcaggtact tttttttttt tttttttttt tttttttt 58

```

<210> 68

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 104

<223> n = a,c,g, or t

<400> 68

```
cccttagcgt ggtcgcggcc gaggtacact attagtggga aagtaaatta gtatagttgc 60
tatggagaat aggatggagt ttccctcaagt aaactaatta ttgnaattac catatgattg 120
aacaatcaca tggctggata tatatctaaa agaaagaaaa tcagtatatt tgaagagata 180
cctgcactct catgtttatt gcagcactgt tcacagtagt caaaggtttt atgaagccac 240
atagccttgt tagtaagctc aagagtacct gcccgggcgg ccgctcgaaa ggg 293
```

<210> 69

<211> 56

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 9

<223> n = a,c,g, or t

<400> 69

```
cccttagcnt ggtcgcggcc gaggtacttt tttttttttt tttttttttt tacttt 56
```

<210> 70

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 192,252,276

<223> n = a,c,g, or t

<400> 70

```
cccttagcgt ggtcgcggcc gaggtactgt gggaagggga gttgggcact cttggaggac 60
tcctgctgaa ggtggtcagc ctgcctgaca atggaagaca tacttgaatg gggagcaggg 120
tatgtgcttt catatgaaaa aagagctgat gttaaaactc atttggtgag gtcaacgttg 180
tcacatacct tnacataagg gatagtatat tttgggttgc agtcaaactt gtgctcagac 240
tggtgaaact gngagtcagg cttttacatt tttaanagaa aatacagttt tttca 295
```

<210> 71

<211> 75

<212> DNA

<213> Homo sapiens

<400> 71

```
cggccgccag tgtgatggga tatctgcaga attcgccctt agcgtggtcg cggccccgagg 60
tacttttttt ttttt 75
```

<210> 72

<211> 356

<212> DNA

<213> Homo sapiens

<400> 72

```
ccctttcgag cggccgcccc ggcaggtact gaaaatctta cggagagtta aaaataatac 60
taatcctcgc ccggctgaac tggaattctt gcagttacaa agttaaaatt tcaagtaaac 120
actgtatttt tcactttttg tagacagaca cagtgcagat acaaacagct gccatatctc 180
acctcagatg aagctatgtg tcaatgctta gggaaaatga tcttagataa tttcccaatt 240
ttatagagct taaatctttg aaaacagcac taatactgct ggttgactgg ctatctacaa 300
cagcaaaagt aacataaagt tttgacgatg agaggtttcc caaagaaact aatata 356
```

<210> 73
<211> 57
<212> DNA
<213> Homo sapiens

<400> 73
gtgtgatgga tatcaagcag aattcgccct tgagcggccg cccgggcagg tactttt 57

<210> 74
<211> 238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 227,230,238
<223> n = a,c,g, or t

<400> 74
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttgctctgtt 60
ttataaatac atgtgttcaa acaatcttga ttaggagcat ttaatcacg aagccaacac 120
atgttactgc gtatctgttt aaaatctggt agttgcttaa tgggaccaac agcagcaata 180
gctggactcc tattataaat gtatttggtta cctgcccggg cggccgntcn aaagggcn 238

<210> 75
<211> 321
<212> DNA
<213> Homo sapiens

<400> 75
ccctttcgag cggccgcccc ggcaggtacg cgggggttct gaagcggcgg ccagagaaga 60
gtcaagggca cgagcatcgg ccatgccttt cttggacatc cagaaaagg tccggccttaa 120
catagatcga tggttgacaa tccagagtgg tgaacagccc tacaagatgg ctggtcgtatg 180
ccatgctttt gaaaaagaat ggatagaatg tgcacatgga atcggttata ctcgggcaga 240
gaaagagtgc aagatagaat atgatgattt cgtagagtgt ttgcttcggc agaaaacgat 300
gagacgtgca ggtacctcgg c 321

<210> 76
<211> 43
<212> DNA
<213> Homo sapiens

<400> 76
gatatctgca gaattcgccc ttagcgtggt cgcggcccga ggt 43

<210> 77
<211> 240
<212> DNA
<213> Homo sapiens

<400> 77
ccctttgagc ggccgccccg gcaggtacgc gggccaatg aggagaggaa tcttctctca 60
gttgcttata aaaatgttgt aggagcccgt aggtcatctt ggagggtcgt ctcaagtatt 120
gaacaaaaga cggaaggtgc tgagaaaaaa cagcagatgg ctcgagaata cagagagaaa 180
attgagacgg agctaagaga tatctgcaat gatgtacctc ggccgcgacc acgctaaggg 240

<210> 78
<211> 326
<212> DNA
<213> Homo sapiens

<400> 78
cccttttcgag cggccgcccc ggcaggtacc atgatagaat actgcaattg tggtcagaat 60
tacagtatgc acaaagaatt aattagcatt attaaagagt cctcactaaa catttcatat 120
gatcacactg aagaactgta acattccata gagtgaagtg gttcaaattt ctcttggaat 180
ttttactttt gttggcctta ttttatgata cttttcatat ttcttttgac ttagagtatt 240
aatacatggc caaaataatt tagttactac ctcatacaaa caatataatg gttactacac 300
atcacaggaa cttagttttg gtttaa 326

<210> 79
<211> 217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 63,74,104,118,125,129,135,147,149,154,165,180,186,187,194,208
<223> n = a,c,g, or t

<400> 79
cccttttcgag cggccgcccc ggcaggtact tttttttttt tttttttttt tttttttccc 60
atncaactta aatnctttta ttgacaatgt tttggaacaa taancaaaca atgcttanat 120
ttttnattna aattnacttt ccacatntna taanacctta aggtnaaaaa aaataaaaaan 180
aaaaannaaa tatntgagaa tccatttnat taaataa 217

<210> 80
<211> 79
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 54,63
<223> n = a,c,g, or t

<400> 80
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttgnntttttt 60
ttnttttttt tttttttttt 79

<210> 81
<211> 367
<212> DNA
<213> Homo sapiens

<400> 81
cccttttcgag cggccgcccc ggcaggtacg cgggggggggt cgactgacgg taacggggca 60
gagaggctgt tcgcagagct gcggaagatg aatgccagag gacttgatc tgagctaaag 120
gacagtattc cagttactga actttcagca agtgggcctt ttgaaagtca tgatcttctt 180
cggaaagggt tttcttgtgt gaaaaatgaa cttttgccta gtcacccct tgaattatca 240
gaaaaaaatt tccagctcaa ccaagataaa atgaattttt ccacactgag aaacattcag 300
ggtctatttg ctccgctaaa attacagatg gaattcaagg cagtgcagca ggttcagcgt 360
cttccat 367

<210> 82
<211> 69
<212> DNA
<213> Homo sapiens

<400> 82
cccttttcgag cggccgcccc ggcaggtact tttttttttt tttttttttt tttttttttt 60
ttttttttt 69

<210> 83
<211> 145
<212> DNA
<213> Homo sapiens

<400> 83
cccttagcgt ggtcgcggcc gaggtacaaa aggccaaaaa aaaaaaaaaa gtcccaaac 60
accaagagac aaaaggtagg aggaaagaca agaaaggaag atacaaaagg agcaggaaga 120
aacttactta gggacaagat tagca 145

<210> 84
<211> 54
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33,47
<223> n = a,c,g, or t

<400> 84
cctctacatg catgctcgag cggcccccatt gtnatggata tctgcanaat tctc 54

<210> 85
<211> 94
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16,18,26,49,61
<223> n = a,c,g, or t

<400> 85
cccttagcgt ggtcgntntc gaggtacctt tttttttttt tttttttgnt ttttttttg 60
nttttttttt tttttttttt tttttttttt tttt 94

<210> 86
<211> 153
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 59,127,141,146,147
<223> n = a,c,g, or t

<400> 86
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttttgggtnt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
ttttggnaaa aaaaaataaa nttttnttt ttt 153

<210> 87
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 541
<223> n = a,c,g, or t

<400> 87
cccttagcgt ggtcgcggcc gaggtacgcg ggggaaacgg aagtgcgcg cggggtcgac 60
tgacggtaac ggggcagaga ggctgttcgc agagctgcg aagatgaatg ccagaggact 120
tggatctgag ctaaaggaca gtattccagt tactgaactt tcagcaagtg gaccttttga 180
aagtcattgat cttcttcgga aagggttttc ttgtgtgaaa aatgaacttt tgcctagtca 240
tccccctgaa ttatcagaaa aaaattttcca gctcaaccaa gataaaatga atttttccac 300
actgagaaac attcagggtc tatttgctcc gctaaaatta cagatggaat tcaaggcagt 360
gcagcagggt cagcgtcttc catttcttcc aagctcaaatt ctttctactg atgttttgag 420
gggtaattgat gagactattg gatttgagga tattcttaat gatccatcac aaagcgaagt 480
catgggagag ccacacttga tgggtggaata taaacttggg ttactgtaat aagtgtgctg 540
ntcatggaaa ccgaagggtc gcatcttggt tatagtcata tttgtcctgc ccggggcc 597

<210> 88
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 500,510
<223> n = a,c,g, or t

<400> 88
cccttagcgt ggtcgcggcc gaggtacagt ttgaaatact atttttttatc aagttttata 60
aaaatgcaga attttgtttt acattttttt ttttttttaa agctatgttg ttagcacaca 120
gaacacttca ttgttgtttt tgggggaagg ggcataatg actaatagaa tgtctccaaa 180
gctggattga tgtggagaaa acacctttcc cttctagtgt tgagagactt cctcttggtg 240
cccaggagga gggattccct gactttgaca cacatggcca ccttggcaca aaagccttgt 300
ggtatagaaa aacaaatttg tttttatgtc ctcttctccc tttccatctt tcagcataga 360
cttaactccc ataagcccag acatctgttg agacctgacc cctagtcatt gggtaccagt 420
gtgtcaggca atctggactt tccagtgatg ccactgagat ggcacctgtc aaaagagcag 480
tggttccatt tctagattgn ggatcttcan ataaattctg ccattttcat ttcacttcct 540
gaaagtcagg gtcggctt 558

<210> 89
<211> 256
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 143,145,146,153,156,161,165,166,167,174,175,176,198,241,246,250
<223> n = a,c,g, or t

<400> 89
cccttcgag cggccgcccg ggcagggtact tttttttttt tttttttttt ttgttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt ttncnnaaaa aanttnaaaa ntttnnnaaa accnnnnaaa 180
aaaaaaaaaa aaaaaaangg gaaaaaaaaa aaggggggga aaaaaaaaaa aaaaaaaaaa 240
nggggncccn gggggg 256

<210> 90
<211> 457
<212> DNA
<213> Homo sapiens

<400> 90
cccttcgagc ggccgcccg gcagggtact attttgtttc tttatatagt ttgcgtttga 60
tattagtgtc tgcaattgta ttaaagtcaa aagctgattt ttatggcata cacaagaatg 120
ccactttttc ttttatttca taccaataat ttaaagattg atatgctaaa aacaatttgc 180

```
acagcactaa agcatgagct actttcatct aaacctgtaa aaatatgaaa gattttttata 240
ttttttcact gggaagaaat tcttcctgga tgaaattaca aatatgtgta gaatatattt 300
aataaaaagac ttataaaaata cctaactaca ggacttaaaa tatagattgg cgcgtagtat 360
atagaacaat attccatata aataagttta gcctttataa aaatgaagtt gcaggctgac 420
attacattct gtacctcggc cgcgaccacg ctaaggg 457
```

<210> 91
<211> 174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 138
<223> n = a,c,g, or t

```
<400> 91
cgcccgcccg ggcaggtagc cggggagcta caagtttagc aactcgggga gcagaatcac 60
ctgtgcaaaa caggactcct gcagaagtca actgtgtgag tgagataagg ctgctgccac 120
ctgttttgct agaaacanga cgacctacaa taaaagtac cttggccgct ctag 174
```

<210> 92
<211> 377
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19,27,73,298,330,341
<223> n = a,c,g, or t

```
<400> 92
cccttagcgt ggtcgcggnr cgaggtnccr caaaacactg gaatgaaaaa tgaaaaaaca 60
gccaacaggg aanagtgtcg caccagaggag aaagttaatg caacaggacc acagttcgtg 120
agtggagtga ttgtgaagat cattagcaca gagcctctac ctggcaggaa acaagtccgg 180
gatactttgg cagcaatctc agaagttctt tatgttgatt tgctagaagg ggatacagaa 240
tgccatgcta gatttaaaac tcctgaggat gctcaagcag taataaatgc ctatacanaa 300
attacattg aaacacttgc tggaaactcn agatcctttt ntggtgatca cgaacaaagg 360
tattggcaga agatttt 377
```

<210> 93
<211> 394
<212> DNA
<213> Homo sapiens

```
<400> 93
ccctttcgag cggccgcccc ggcaggtagc gcattctgga ataaagcaag agtgttcatt 60
cacacacaca gtagcttcaa aactgttcga tctgtttggt cccatgtagt tttctaaaga 120
tggaaaaaaa ggactttggt catcaagact actgtggcca tattagatta ctggaacatc 180
taagcatcag tgtgtgacca tgcgaacaaa agacttcggg gagtgtctat ttttaaaaag 240
gtttatgtgt gtcgaggcag ttgtaaaaga tttactgcag aatcaagccc acttttaggc 300
ttaggaccag gttctaacta tctaaaaata ttgactgata acaaaaagtg ttctaaatgt 360
gcccgcgtac ctcgccccgc gaccacgcta aggg 394
```

<210> 94
<211> 488
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 245

<223> n = a,c,g, or t

<400> 94

```
ccctttcgag cggcccgccc gggcaggtac gcggggagggc attgagggcag ccagcgcagg 60
ggcttctgct gagggggcag gcggagcttg aggaaaccgc agataagttt tttctctttg 120
aaagatagag attaatacaa ctacttaaaa aatatagtca ataggttact aagatattgc 180
ttagcgttaa gtttttaacg taattttaat agcttaagat ttttaagagaa aatatgaaga 240
cttanaagag tagcatgagg aaggaaaaga taaaagggtt ctaaaacatg acggagggtg 300
agatgaagct tcttcatgga gtaaaaaatg tattttaaag aaaattggga gaagggacta 360
cagagccccg aattaatacc aatagaaggg caatgctttt agattaaaat gaaggtgact 420
taaacagctt aaagtttagt ttaaaagggt gtaggtgatt aaaataattt gaaggcgatc 480
ttttaaaa                                         488
```

<210> 95

<211> 224

<212> DNA

<213> Homo sapiens

<400> 95

```
atggatatct gcagaattcg ccctttcgag cggccgccccg ggcaggtacg ctgcttggac 60
ttattttcta atgcagccca ctgggcttca aaaggatcca ctgggcagggt gcctgtagga 120
acctctgtat gcctgtctgc tgaggccaac ctgccatcat ctacaccatt gaaagctgca 180
gaaccgttga ggtgctgagc aggaggctta aagaaggggc tgggt                                         224
```

<210> 96

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14,20,52,60,61,110,197,209,211,212

<223> n = a,c,g, or t

<400> 96

```
agcggccgcc cggncaggtn catactattc tgcacttttc caccaaaagc antgggtgtgn 60
natgcttggt atataaaaaa agttatatcc tgtggcagga aaaacccttn ctctttcact 120
tttactaaac aactggagaa aatgttcaag tctgtataaa gttgcctata agctggaaag 180
tgaacttggt caatctncat ttacatttna nngcattttt tgacaattgt cacattttta 240
acaaaagtaa gaaaatgcat atagcactaa agagtgtttc atcaaagtct taagggat 298
```

<210> 97

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 16,204,237

<223> n = a,c,g, or t

<400> 97

```
cgaccacgcg tccgencaac ccaccaacgc cagcgtcagc accttcattg aggacctgaa 60
gaagtacggg gctaccactg tgggtgcgtgt gtgtgaagtg acctatgaca aaacgccgct 120
ggagaaggat ggcatacccg ttgtggactg gccgtttgac gatggggcgc ccccgcccg 180
caaggtagtg gaagactggc tgancctggt gaaggccaag ttctgtgagg ccccgcnag 240
ctgcgtggct gtgcactgcg tggcgggcct g                                         271
```

<210> 98

<211> 109

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 50,83,92
<223> n = a,c,g, or t

<400> 98
tcgccccgcg tccggacccc aaacttaaac atactgagaa tctttcagcn cgccctggag 60
ggagggccag cgtggacacc aangaggctg anggcgcccc ccaggtgga 109

<210> 99
<211> 615
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 470,563,591,610
<223> n = a,c,g, or t

<400> 99
cgccccgcgt ccgttctttt gtctatattgc tgttgattgt accaagggat ggaagaagta 60
aatatagctc aggtagcaact ttatactcag gcagatctca gccctctact gaggccctta 120
gccaagcagt ttctttcaaa gaagccagca ggcgaaaagc agggactgcc actgcatttc 180
atatcacact gttaaaagtt gtgttttgaa attttatgtt tagttgcaca aattgggcca 240
aagaaacatt gccttgagga agatatgatt ggaaaatcaa gagtgtagaa gaataaatac 300
tgttttactg tccaaagaca tgtttatagt gctctgtaaa tgttcctttc ctttgtagtc 360
tctggcaaga tgcttttagga agataaaagt ttgaggagaa caaacaggaa ttctgaatta 420
agcacaagag ttgaagttaa taccogttca catgcttttc aagaatgtcn caattactaa 480
gaagcagata atgggtgtttt tttagaaacc taattgaagt atattcaacc caaatacttt 540
aatgtataaa ataaaatatt atnccaatat accttgtagt caagtttctg ntttacattt 600
tgattttttt caaat 615

<210> 100
<211> 471
<212> DNA
<213> Homo sapiens

<400> 100
cccttttcgag cggccgcccc ggcaggtaca tactattctg cactttttcca ccaaaagcag 60
tggtgtgtta tgcttggtat ataaaaaaag ttatatcctg tggcaggaaa aaccctttct 120
ctttcacttt tactaaacaa ctggagaaaa tgttcaagtc tgtataaagt tgcctataag 180
ctggaaagtg aacttgttca atctccattt acatttttagt gcattttttg acaattgtca 240
catttttaac aaaagtaaga aaatgcataat agcactaaag agtgtttcat caaatgctta 300
agggattaaa aaatatggag cagagaacaa aatcattgtg aatggatgaa ctggtgtaaa 360
atgaaaaaag tccaggcaaa gttgttacaa gtcttttgtc actttgatga gtcacagaaa 420
atgaactttg gatacctgtc cactttaagg gttttttcct taatcttttg c 471

<210> 101
<211> 334
<212> DNA
<213> Homo sapiens

<400> 101
cccttttcgag cggccgcccc ggcaggtacg cggggggact atattctgga gtctatgcct 60
catacccaca ttcagtgggt tagcattatg aattccctgg tcattgttct cttcttatct 120
ggaatggtag ctatgattat gttacggaca ctgcacaaa atattgctag atataatcag 180
atggactcta cggaagatgc ccagggaaga tttggctgga aacttgttca tggatgatg 240
ttccgtcctc caagaaaagg gatgctgcta tcagtctttc taggatccgg gacacagatt 300

ttaattatga cctttgtgac tctatTTTTc gctt

334

<210> 102

<211> 348

<212> DNA

<213> Homo sapiens

<400> 102

ccctttcgag	cgcccgcccg	ggcaggtacg	cagggatcat	aggctgtttt	aagttagaaa	60
actgaatagc	aacactgaat	actgtagaaa	tgcactttgc	tcagtaatac	ttgagttggt	120
gcaatatattg	attatccatt	tggttggttac	agaaaaattc	ttaaactgtaa	ttgatgggtg	180
ttgccgtaat	agtatattgc	ctgtatttct	acctctagta	atgggcttta	tgtgctagat	240
tttaatatcc	ttgagcctgg	gcaagtgcac	aagtcttttt	aaaagaaaca	tggtttactt	300
gcacaaaact	gatcagtttt	gagagatcgt	taatgccctt	gaagtggg		348

<210> 103

<211> 329

<212> DNA

<213> Homo sapiens

<400> 103

cccttagcgt	ggtcgcggcc	gaggtactgc	cagattcgtc	taaatgtctg	tcatgtccag	60
atttactttg	cttctgttac	tgccagagtt	actagagata	tcataatagg	ataagaagac	120
cctcatatga	cctgcacagc	tcattttcct	tctgaaagaa	actactacct	aggagaatct	180
aagctatagc	agggatgatt	tatgcaaatt	tgaactagct	tctttgttca	caattcagtt	240
cctccaacc	aaccagcctt	cacttcaaga	gggccacact	gcaacctcag	cttaacatga	300
ataacaaaga	ctggctcagg	agcagggct				329

<210> 104

<211> 350

<212> DNA

<213> Homo sapiens

<400> 104

cccttagcgt	ggtcgcggcc	gaggtacaaa	tgtcaaagag	aagtattatt	gcattctagta	60
aacctaaagac	acagagacac	ggatatacta	tactccagaa	aatcacaata	tctacctcaa	120
agggtgactag	aagaaagacc	aaggggtattt	attaaaaaac	atttttcttt	aatctggaat	180
tgtcacatgt	tccagagaag	agagggagaa	cccaaaccce	caggcctgcc	acctatcagc	240
taagaggcat	ctgtgcagat	ctttatcata	atactttcct	cagggttattt	ccaaatccaa	300
tttaatggat	attcaactga	cactcaagag	tcagctttaa	aaggactata		350

<210> 105

<211> 336

<212> DNA

<213> Homo sapiens

<400> 105

cccttagcgt	ggtcgcggcc	gaggtactaa	gaagaacatg	aaactgtttc	cgtctcaatt	60
ccagcttatc	ttcaacactt	tctttaatgt	gtgaaagatg	ctctaattct	tttcccagag	120
cctctagttc	ctttaatgtc	tcatgcctgt	ctggatgggtg	ctgaatcact	tttgccaaag	180
catcatattc	ttggcgattt	tttcgtattc	gttttgcttg	aagaatttgc	tttttgcact	240
cagcaatttt	ttcatgtgct	ccagctatgc	tacattctat	ttccttgtaa	attttttcat	300
aattttccat	ttctctgaga	ttcatatcat	atacta			336

<210> 106

<211> 265

<212> DNA

<213> Homo sapiens

<400> 106

cccttagcgt	ggtcgcggcg	aggtaaccaa	cactacgttg	aagtattctt	ttatccctgc	60
------------	------------	------------	------------	------------	------------	----

```
cacaacttca ttaaccgcat actccttatt atctgtgttt ccacgagatt tcttgtaatt 120
tgcataatcc tcaagaatgg aatccacatt cttcttggca ggaagataaa agagctgttt 180
ttgcctggta attaagtcct agtcatcaac aagccacggg tttagctctt ccccgctac 240
ctgcccgggc ggccgctcga aaggg                                     265
```

<210> 107
<211> 331
<212> DNA
<213> Homo sapiens

```
<400> 107
ccctttcgag cggccgcccc ggcaggtaca aattgagctc tctattcata acctcaatgt 60
atgtattcct gtcattaat ataactttgca ccagcaaaag cgatttccaa catatgtgtt 120
ttggaggtaa ttaagtaact ctgtataaaa ataaatgcac tttccctcc tttcccagc 180
gaatggaaaa cttccatact ttcaaaataa taataaaaaa aataattttt aagagcaaca 240
gccctcaact ctttgtgtgt gcctgccata ctgcctttct tcactccatt cttagctctg 300
ctagtttctt cttgtatgtc atgataaaaa g                                     331
```

<210> 108
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30,46,188,191,193,204,205,207,247,248
<223> n = a,c,g, or t

```
<400> 108
cccttagcgt ggtcgcgccc gaggtacctn cctttgccaa gccatnctgg atgaaaccaa 60
aggagattat gagaaaatcc tgggtggctct ttgtggagga aactaaacat tcccttgatg 120
gtctcaagct atgatcagaa gactttaatt atatattttc atcctataag cttaaataag 180
aaagtttntt nancaggatt gcannnagc tacctacatg ctgaaaaata tagcctttaa 240
atcattnnta tattataact ctgtataata gagataagtc cattttttaa aaatgttttc 300
cccaaaccat                                     310
```

<210> 109
<211> 330
<212> DNA
<213> Homo sapiens

```
<400> 109
ccctttcgag cggccgcccc ggcaggtacc tcttgaaaaa cctcaatgca agatagtgtt 60
tcagtgtctg catatttttg aattctgcac attcatggag tgcaataata ctgtatagct 120
ttcccacct cccacaaaat caccagtta atgtgtgtgt gtgttttttt ttttaaggtaa 180
acattactac ttgtaacttt ttttcttagt catatttgaa aaagtagaaa attgagttac 240
aatttgattt tttttccaaa gatgtctgtt aaatctgttg tgcttttata tgaatatttg 300
ttttttatag tttaaaattg atcctttggg                                     330
```

<210> 110
<211> 92
<212> DNA
<213> Homo sapiens

```
<400> 110
cccttagcgt ggtcgcgccc gaggtacttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tt                                     92
```

<210> 111
<211> 90
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10,18,19,22,25

<223> n = a,c,g, or t

<400> 111

```
cccttagcgn ggtcgccnnc gnagnacctt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt                                     90
```

<210> 112

<211> 530

<212> DNA

<213> Homo sapiens

<400> 112

```
cccttagcgg ccgcccgggc aggtacaatg gtcttccaca ctagagacaa aggcaatgag 60
gtgaacgcag aacggatgaa gctcttacac caagtgtcac gagtctggag aacagatggg 120
ttgagtagtt gttcttataa attagtatct gtggaacaca atcctttata tatcaacatc 180
acagcggatt tctggtttgg tgcattgacc tggatctttt ggtgatgttt ggaagaactg 240
attctttggt tgcaataatt ttggcctaga gacttcaaatt agtagcacac attaagaacc 300
tggtacagct cattgttgag ctgaattttc cctttttgta ttttcttagc agagctcctg 360
gtgatgtaga gtataaaaaca gttgtaacaa gacagctttc ttagtcattt tgatcatgag 420
ggttaaatat tgtaatatgg atacttgaag gactttatat aaaaggatga ctcaaaggat 480
aaaatgaacg ctatttgagg actctgggtg aaggagattt atttaaattt 530
```

<210> 113

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 55

<223> n = a,c,g, or t

<400> 113

```
attcgccctt agcgtgggtc cggccgaggt actttttttt tttttttttt ttttnggttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt                                     160
```

<210> 114

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 588,619,621

<223> n = a,c,g, or t

<400> 114

```
cccttcgagc ggccgcccgg gcaggtacta atgtaatcac tgaaaccttt tcttgaaata 60
aggggaagcag ccaaactttg attaaagttg caagttctgg ggacttgagg ggggtgtcat 120
aaactgtaac agtgggtttt ggttcagcat gtaaatgcaa ctttgatttt cttgaggacc 180
gattgacctg tcatgtccct gtatcctcat gtcattcatc tcagcaggcc tgagaggctg 240
ggtcagtttg ggtgttcctc atgaggattg cttctgccat ggagctgatg gacgtgggca 300
ggttgctgag aagtggtgggt gaaagtgagt gccgggggtg ggtgagtgcc ctggtcttgt 360
tcatagggga gcctttccct agcagtggaa cgctgtgggc attttctcta gcatattccc 420
ttgggaagtc tagatttgct attaatctgg ctgagaatct aagttctgtg ccttagagac 480
```

```
agtttgcact ttcccatatt gtgcctggga cagccatatg attttttttc ccaccaaaca 540
agtatgcaaa cagaaaccag ttcaaagggg gatggagtaa aagatgangc agtagaaatg 600
cctttgaatg gttttctgna nctaattctc tttaaattt 639
```

<210> 115

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 125,250

<223> n = a,c,g, or t

<400> 115

```
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt tggcagctaa 60
agatatacag attactgtta aattgcagtc cttttttttt aaagatattt tcttgagtta 120
tttanaacat ggtaagcctg gtatttttta atcaaacaaa atatttatga aatgggtttt 180
ctcttaattc tggattcatc atggctttct aataccaatt gtaatattta caatattcac 240
caaaacttan aattttgcaa atgctggaat tctgccagtg tttctttgct aagccttgca 300
tgcaaaattt gaaattttta cattggcacc caaaacctac atggaatgta tgtctggagt 360
atttcaaact ttacattgaa acataatttc cttggaaaac aaaccataag cctgaggagg 420
tttttatcaa ctggaatgct ttatattagt ttgtttttca ctgtacctgc cggggcgggc 480
gctcgaaagg g 491
```

<210> 116

<211> 85

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 58

<223> n = a,c,g, or t

<400> 116

```
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt tttttttnat 60
tttttttttt tttttttttt tttttt 85
```

<210> 117

<211> 327

<212> DNA

<213> Homo sapiens

<400> 117

```
cccttcgagc ggccgcccgg gcagggtacac aggaggcaaa gtgttttcaca tcatagactt 60
cacttccaac tccttggaat gttcattttct ttggcttaca ggagagacta gacaggaagg 120
ccaggcaatg cttaggcaac taaaatgagg ttgggggtaa tgctaacgtc accctcacag 180
ggatggccac ggggactggt attcgcaagc tggttttcta gacctgttag ctggaagcat 240
ggtgagcacc atttctggac gctcaggccg tgtcgggctt cagtcatctc caccacacag 300
gtacctcggc cgcgaccacg ctaaggg 327
```

<210> 118

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 169,198

<223> n = a,c,g, or t

<400> 118
cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt ttttggctac 60
attttacttt attttgttgt aaggaaaacc aattgactaa gttgtcccca aaatgttagt 120
gttcactgat caagagggaa atgaggtcag aaggcaaact tttcacttnt tctcaaacat 180
aaattgcaag tatcacanaa aattgtaaca acacatgcaa cacgggatgg ctttcaacac 240
acagagagcc taagcaagaa gagtgagtac ctgccggggc ggccgctcga aaggg 295

<210> 119
<211> 569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 533
<223> n = a,c,g, or t

<400> 119
cccttagcgt ggtcgcggcc gaggtaccaa aggcgacagc tgcccattcc gtcactgtga 60
agctgcaata ggaaatgaaa ctgtttgcac attatggcaa gaagggcgct gttttcgaca 120
ggtgtgcagg tttcggcaca tggagattga taaaaaacgc agtgaaattc cttgttattg 180
ggaaaatcag ccaacaggat gtcaaaaatt aaactgcgct ttccatcaca atagaggacg 240
atatgttgat ggccttttcc tacctccgag caaaactgtg ttgcccactg tgcctgagtc 300
accagaagag gaagtgaagg ctagccaact ttcagttcag cagaacaaat tgtctgtcca 360
gtccaatcct tccccctcagc tgcggagcgt tatgaaagta gaaagtccg aaaatgttcc 420
tagccccacg catccaccag ttgtaattaa tgctgcagat gatgatgaag atgatgatga 480
tcagttttct gaggaagggt atgaaaccaa aacacctacc ctgcaaccaa ctinctgaagt 540
tcacaatgga ttacgagtga cttctgtcc 569

<210> 120
<211> 617
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 557
<223> n = a,c,g, or t

<400> 120
cccttagcgt ggtcgcggcc gaggtaccaa aaagaagaaa ccaatgggga cgagttggca 60
acggaatctg aagtgtctta gctgcaaggt agatgcaagc acatgctata gtctctggtt 120
gaaatcgaac aaacacattg gttcgaagac tgtcattcat gtaattcctg aaaaatattt 180
caactataag cttgcatgta aacaaaccag ttcttctgaa gcttacataa aattggagac 240
tcaatctact ttattctttt ttcttctctt atttataatt acatcctcat attctagcat 300
ataacaactc ttaactcaaa aaaatcagta agcaataaga atttaatact aggaccatat 360
gcgattttcc tatatatgag cgaagccctt ttaaattatt tcatattaca atccaaacta 420
gaaattactc ctaaaaagtt aatataattc tgtaaaaagc aatgcttttc aaagtcatte 480
tgacacgatt agtttcagaa atgataaacc actccaataa tacttcaagc cattaattac 540
tgaccatctc tccttnttca caataaaagc agtgtcaacc aagttctttt caaaagctca 600
aaataccggt aacaggg 617

<210> 121
<211> 409
<212> DNA
<213> Homo sapiens

<400> 121
ccctttcgag cggccgcccc ggcaggtaca gagccctgtt atttttctct ttggccctat 60
ttggctgctt ttattaatgc atcagaactt tatgtataat catatggatt tatacgtaaa 120

```
ttaagaaaaa atgtccattt cattcagttc atatgttcta aacgtattgc tgatcattct 180
taaagttagac tccaggttta cattccttaca taaagtgcag ggatcccgaa gttagcccca 240
aagatcccct tgcctttttc agacttgctc aaatgttacc ttatcagtgg ggccctttcct 300
gaccacactt taaaaacctc aacacccacc catgggcctt gtccctcctc ccggcttcat 360
tttttggcat atacttatca aatgtgaaca tatgatgcat ttgctttat 409
```

<210> 122

<211> 124

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 33,64,65,80,91,93,100,109,115,120

<223> n = a,c,g, or t

<400> 122

```
ccctttcgag cggccgcccg ggcaggtact ttnttttttt tttttttttt ttttttttta 60
aaanncaaaa ttaaattttt tttcacattg ntngaaacn tgaaaaacnt ttacnctttt 120
ccat 124
```

<210> 123

<211> 342

<212> DNA

<213> Homo sapiens

<400> 123

```
cccttgagcg gccgcccggg caggtacgcg ggggcttcta gtttgcggtt caggtttggc 60
cgctgccggc cagcgtcctc tggccatgga caccgccgaa aatgtccttc agatgcttga 120
agcccacatg cagagctaca agggcaatga ccctcttggt gaatgggaaa gatacatata 180
gtgggtagaa gagaattttc ctgagaataa agaatacttg ataactttac tagaacattt 240
aatgaaggaa ttttttagata agaagaaata ccacaatgac ccaagattca tcagttattg 300
tttaaaattt gctgagtacc tcggccgcga ccacgctaag gg 342
```

<210> 124

<211> 83

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 80

<223> n = a,c,g, or t

<400> 124

```
ccctttcgag cggccgcccg ggcaggtact tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt ttt 83
```

<210> 125

<211> 346

<212> DNA

<213> Homo sapiens

<400> 125

```
ccctttcgag cggccgcccg ggcaggtacg cgggggggata ctactagga aagcagaaga 60
tctgaatcac tgtccccaag aagagaagct tctagagaga acaaaagatc tcagccaaga 120
gtgaaagatt cttccccagg agaaaaatcc aggtcccaga gcagagaacg agaaagtgat 180
agagatgggc agaggagaga gagagaaagg agaaccagaa agtgggtctag gtccagatct 240
cattctaggt cccctcaag atgtagaaca aaaagtaaga gttcatcatt tggtagaatt 300
gacagagata gttactctcc ccggtggaag ggaagatggg caaatg 346
```